



APPLICATION DELIVERY CONTROLLER

FortiADC™ 4000D

QuickStart Guide

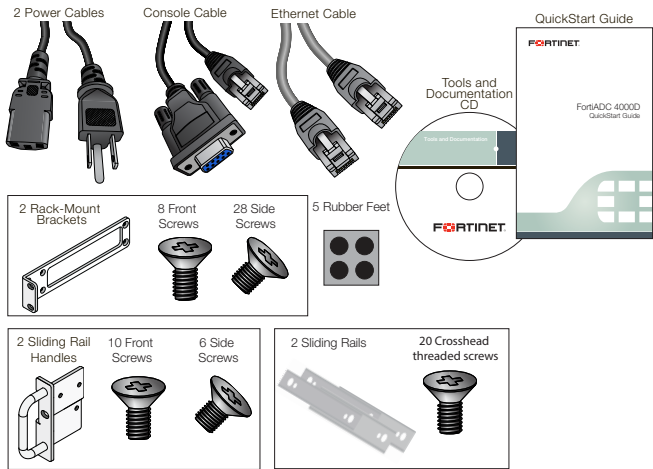


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Package contents

- The box should contain:
- FortiADC 4000D appliance
 - FortiADC 4000D QuickStart Guide
 - Tools and Documentation CD
 - 2 Power cables
 - Ethernet cable
 - Console cable
 - 5 Rubber feet
 - 2 Rack-mount brackets
 - 2 Sliding rail handles
 - 6 Sliding rails (2 pairs inner rails, 1 pair outer rails)
 - 72 Screws for sliding rails and rack mount brackets



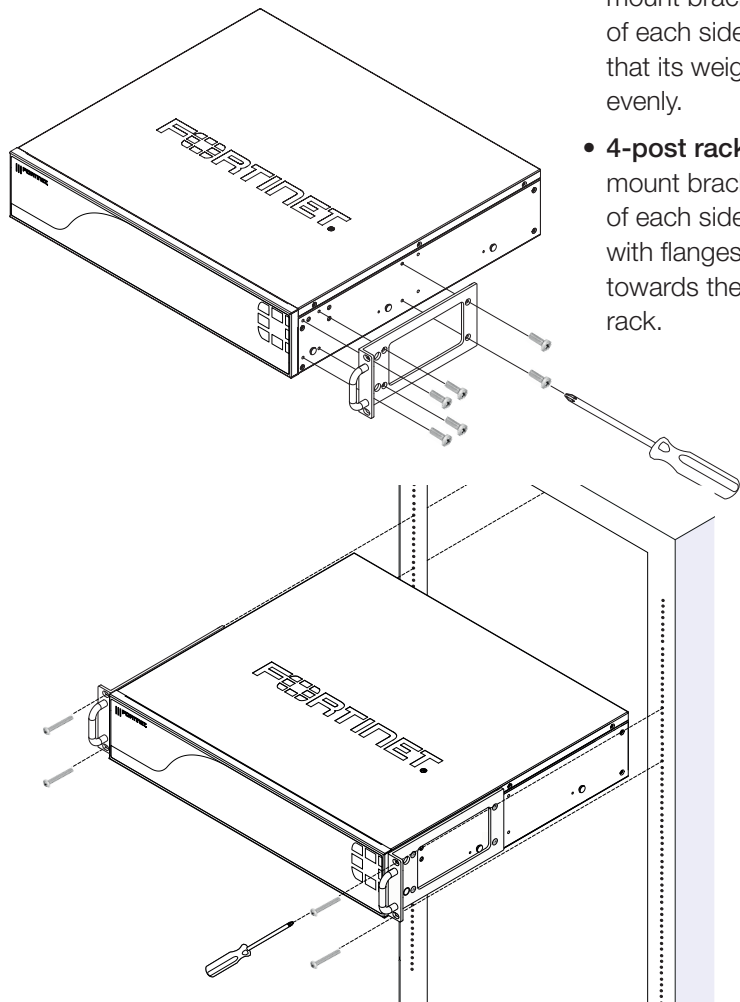
Rack mounting

FortiADC appliances should be installed in a restricted access location such as a locked data center to ensure their physical security, which is fundamental to your network security.

Either place the FortiADC appliance on a flat surface, or mount it in any standard 19 inch (48.3 cm) rack with the rack-mount brackets. In a rack, a FortiADC 4000D occupies 2U (3.5 inches/8.9 cm).

You can use rack-mount brackets or sliding rails, according to your requirements.

Racking-mount brackets

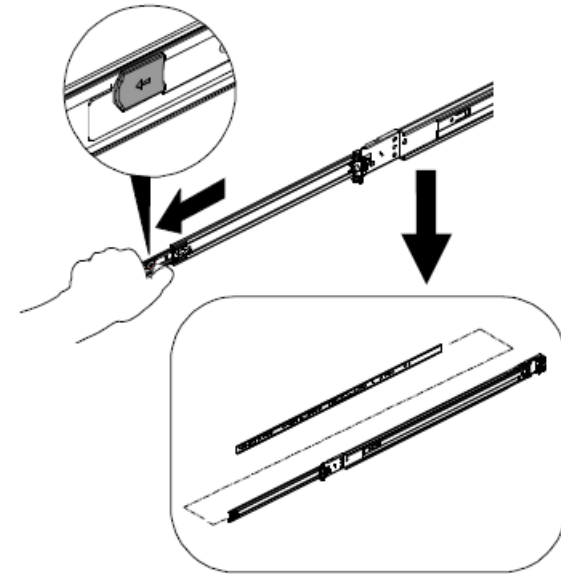


- **2-post rack:** Attach the rack-mount brackets to the **middle** of each side of appliance so that its weight is distributed evenly.
- **4-post rack:** Attach the rack-mount brackets to the **front** of each side of the appliance with flanges facing outwards, towards the notches in the rack.

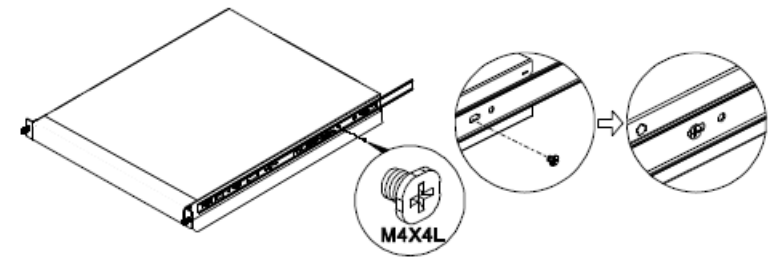
Sliding rails

1. Install the inner rails to the chassis:

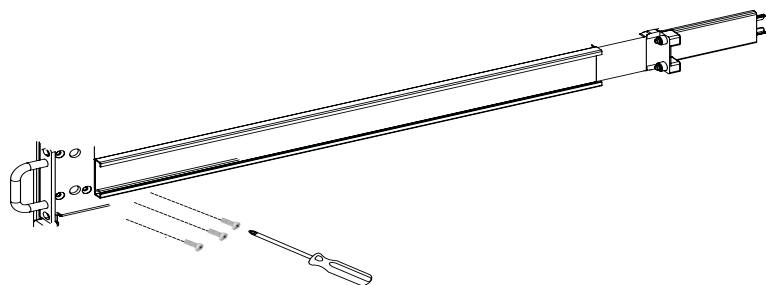
- a. Release and detach the inner member from the slide.



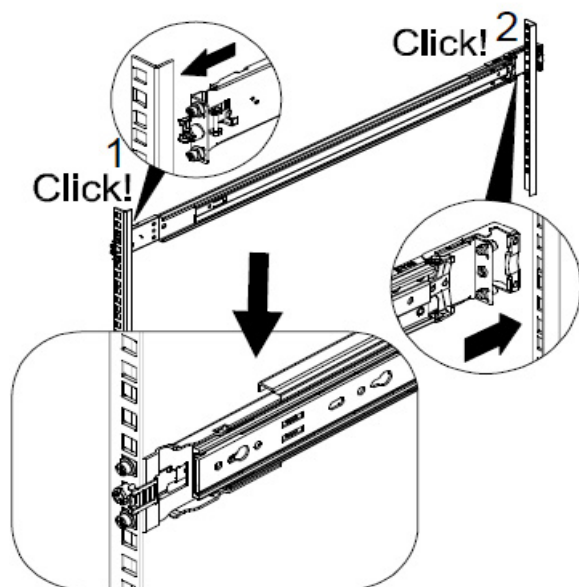
- b. Align the screw holes of the rail and the mounting holes of the chassis and then attach the inner rail to the chassis.



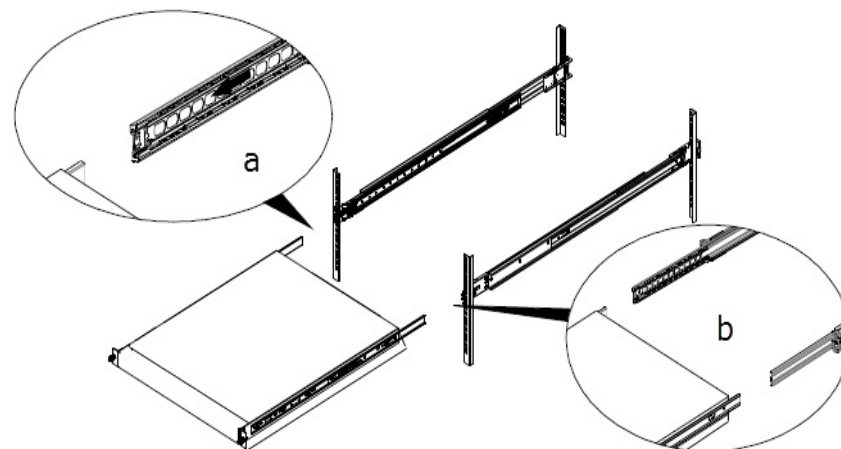
- c. Repeat the above steps for the other rails on the same side (two inner rails need to be installed on each side).
- d. Attach the front ear bracket (short) to the appliance.



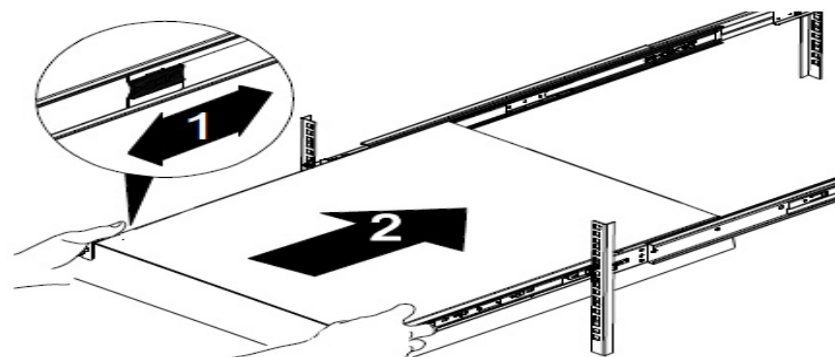
- e. Likewise, attach the inner rails and front ear bracket to the other side of the appliance chassis.
2. Attach the outer rail bracket to the posts of the rack:
- a. Install the outer rail by attaching the rail bracket to the posts of the rack. Use two countersink screws and washers or the original rack manufacturer's bracket screws.
Do not completely tighten the screws; leave them loose so that the middle rail can slide for adjustment.
 - b. Extend and adjust the rear bracket to meet the appropriate depth of the rack and install it to the rack post firmly with rack bracket screws.
 - c. Repeat the above steps to install the other rail to the rack.



3. Install the appliance to the rack:
- a. Verify the ball bearing retainer is locked forward.
 - b. Install the system half-way into the slide rail.



- c. Slide the release tab and push the system into the rack.

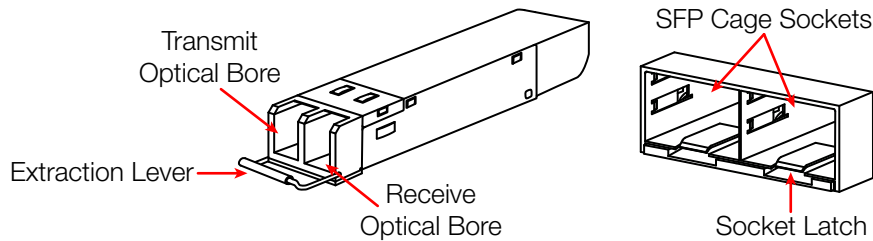


Installing SFP transceivers

If not already installed, install the transceivers that will be used to connect your appliance to the network.

Caution: Do not install or remove transceivers while fiber-optic cables are still attached. This can cause damage to the cables, cable connectors, and optical interfaces. It may also prevent the transceiver from latching correctly into the socket.

Note: Installing and removing transceivers can shorten their life. Do not install or remove transceivers more than is necessary.



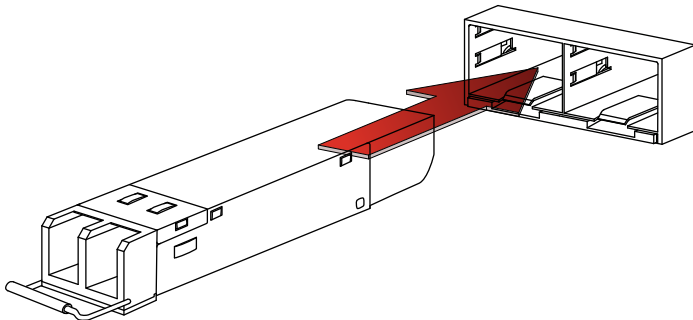
To install the transceivers

1. On the appliance's front panel, remove the caps from the cage sockets.
2. Position the transceiver in front of the cage socket so that the extraction lever is level with the socket latch.

Note: Cage socket orientation may vary. Ensure that the transceiver module is correctly oriented.

3. Holding the sides of the transceiver, gently slide it into the cage socket.

Caution: Do not force transceivers into cage slots. Force can cause damage. If the transceiver does not easily slide in and click into place, it may not be aligned correctly or may be upside down. If this happens, remove the transceiver, realign or rotate it, and try again.



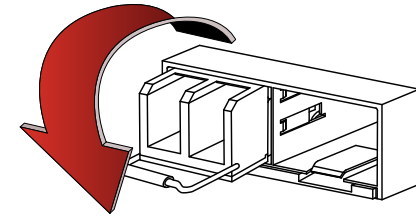
4. Press the transceiver firmly into the cage socket with your thumb until it clicks, indicating that it is latched.
5. To verify that the transceiver is latched, grasp its sides and try to pull it out **without** lowering the extraction lever.

If you can remove the transceiver, it was **not** latched correctly, and could become accidentally dislodged. Try again.

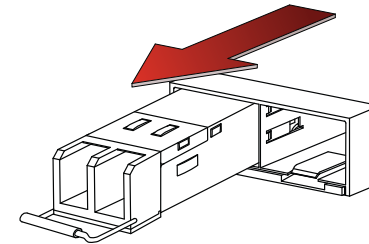
To remove the transceivers

1. Disconnect the fiber optic cable from the transceiver connector.
2. To prevent dust from entering the optical bores, insert clean plugs.
3. To eject the transceiver, pull the extraction lever out and down.

Tip: Instead of using your finger, try a small flat-head screwdriver.



4. Hold the sides of the transceiver and carefully pull it from the cage socket.



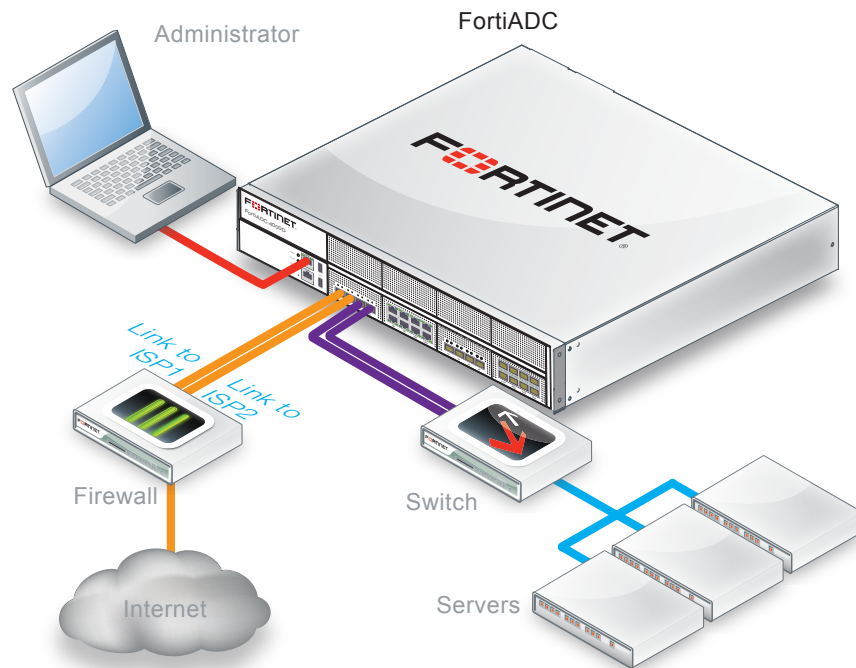
5. Replace the cap on the cage socket.
6. Put the removed transceiver into an anti-static bag.

Connecting to FortiADC

If the appliance has a redundant power supply, connect each power cable to a different power source.

You can configure FortiADC for your network through a connection to either its web UI or command line interface (CLI).

Connect FortiADC only to your computer until you finish setup. (If you place FortiADC in your network before FortiADC is set up, traffic could be interrupted until setup is complete.) **Deployment instructions are in the FortiADC Handbook.** One typical, basic network topology is shown below.



To connect to the web UI

Requires: Microsoft Internet Explorer 8, Mozilla Firefox 20, Apple Safari 6, or Google Chrome 20 or newer

1. Using the Ethernet cable, connect the MGMT port of the appliance to your computer.
2. Configure your computer to match the appliance's default MGMT subnet. For example, on Windows 7, go to the Control Panel Network and Sharing Center. In Local Area Connection, click the **Properties** button. Select **Internet Protocol Version 4 (TCP/IPv4)** then click its **Properties** button. Select **Use the following IP address** and set the following values:
 - IP address: 192.168.1.2
 - Subnet mask: 255.255.255.0
3. To connect to FortiADC's web UI, start a web browser and go to <https://192.168.1.99>. (Remember to include the "s" in https://.)
4. Type `admin` in the Name field, leave the Password field blank, then click **Log In**.

To connect to the CLI via serial console

Requires: Terminal emulator such as PuTTY, Tera Term, or a terminal server

1. Using the console cable, connect the appliance's console port to your terminal server or computer.
2. On your computer or terminal server, start the terminal emulator. Use these settings:
 - Baud rate: 9600
 - Data bits: 8
 - Parity: None
 - Stop bits: 1
 - Flow control: None
3. Press Enter on your keyboard to connect to the CLI.

Shutting down



Always properly shut down the FortiADC appliance's operating system before turning off the power switch or unplugging the appliance. This causes it to finish writing buffered data, and to slow and park the hard disks.

Do not unplug or switch off the FortiADC appliance before halting the operating system. Failure to shut down correctly could cause data loss and hardware problems.

To power off the appliance via the web UI

1. Go to System > Status > Dashboard.
2. In the System Information widget, click the **Shut Down** button.
The appliance becomes more quiet when it stops its hardware and operating system, indicating that it is ready for power to be disconnected.
3. Disconnect the power cable from the power supply.

To power off the appliance via the CLI

1. Either connect to the CLI using a terminal emulator, or connect to the web UI and go to the CLI Console widget.
2. Enter the following command:

```
execute shutdown
```


The appliance becomes more quiet when it stops its hardware and operating system, indicating that it is ready for power to be disconnected.
3. Disconnect the power cable from the power supply.

Registering your product

Register

You must register the product with Fortinet in order to receive:

- Technical support • Software updates

Enregistrer

Vous devez enregistrer le produit pour recevoir:

- Support technique • Mises-à-jour logiciel

Registra

La registrazione vi permette di usufruire di:

- Supporto tecnico • Aggiornamenti software

Registrar

Debe registrar el producto para recibir:

- Apoyo técnico • Actualizaciones del software

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- テクニカルサポート • ソフトウェアのアップデート

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您的飞塔产品

您在注册以后才能得到技术支持, 软件升级



Web: <https://support.fortinet.com/>

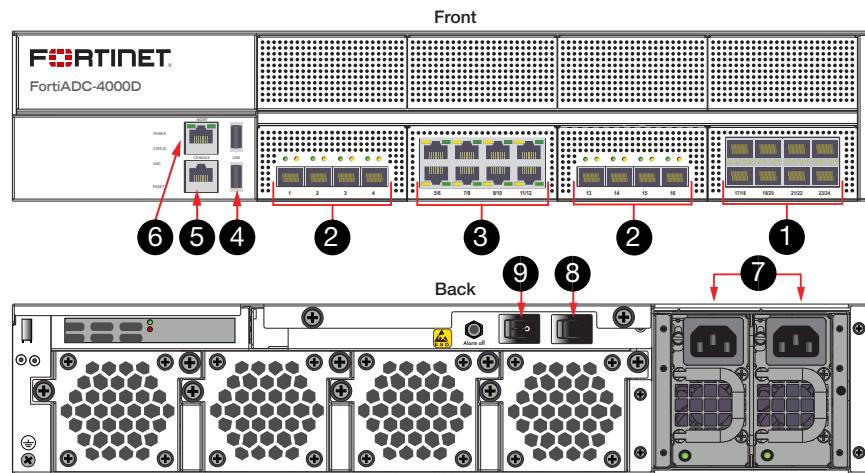
Toll free: 1 866 648 4638

Phone: 1 408 486 7899

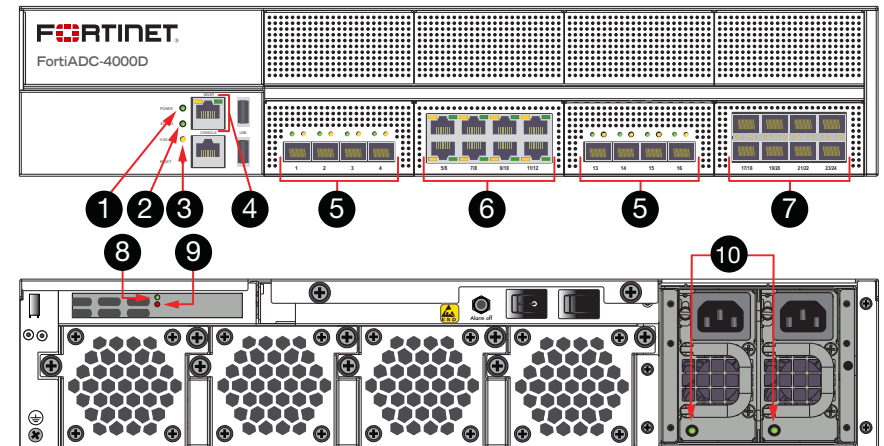
Fax: 1 408 235 7737

Email: register@fortinet.com

Ports & LEDs



#	Interface	Type	Protocol	Description
1	SFP Ports 17-24	SFP	Gigabit Ethernet	Connections to your network & the Internet. SFP tranceiver.
2	SFP+ Ports 1-4, 13-16	SFP+	10-Gigabit Ethernet	Connections to your network & the Internet. SFP tranceiver.
3	Ethernet Ports 5-12	RJ-45	Gigabit Ethernet	Connections to your network & the Internet.
4	USB Ports 1 - 2	USB-A	USB 2.0	Reserved for future use.
5	Console	RJ-45	RS-232 serial	Connection to the management computer. 9600 bps access to the CLI.
6	MGMT	RJ-45	Gigabit Ethernet	Management port. Default IP address is https://192.168.1.99.
7	Redundant Power Connections			100 - 240 V AC 50 - 60 Hz 9 - 4 A
8	Power supply alarm on/off			
9	Power on/off			



#	LED	State	Description
1	Power (top)	Green	The appliance is receiving power.
		Off	System is normal.
2	Status (middle)	Green	Minor system alarm.
		Red	System failure.
3	HDD (bottom)	Flashing	Hard drive read or write activity.
		Amber	
	MGMT Network Activity (left)	Flashing	Port is transmitting & receiving data.
		Amber	
		Off	No link detected.
4	MGMT Network Speed (right)	Amber	Port is connected at 1 Gbps.
		Green	Port is connected at 100 Mbps.
		Off	Port is connected at 10 Mbps or is not in use.
	SFP+ Ports - Speed (left)	Green	Port is connected at 1 Gbps or 10 Gbps.
		Off	No link detected.
		Amber	Link detected.
5	SFP+ Ports - Activity (right)	Flashing	Port is transmitting & receiving data.
		Amber	
		Off	No link detected.

#	LED	State	Description
6	Ethernet Ports - Activity (left)	Flashing	Port is transmitting & receiving data.
		Amber	
	Ethernet Ports - Speed (right)	Off	No link detected.
		Amber	Port is connected at 1 Gbps.
7	SPF Ports - Activity (left)	Green	Port is connected at 100 Mbps.
		Off	Port is connected at 10 Mbps or is not in use.
	SPF Ports - Speed (right)	Flashing	Port is transmitting & receiving data.
		Amber	
8	SSL Accelerator - Power	Off	No link detected.
		Amber	Port is connected at 1 Gbps.
9	SSL Accelerator - Alarm	Off	No link detected.
		Green	The SSL Accelerator card is receiving power.
10	Power supply status	Red	Accelerator card failure.
		Off	Accelerator is operating normally.
		Green	Power supply is operating normally.

Cautions and warnings

Environmental specifications

- Operating temperature** — If this device is installed in a closed or multi-unit rack assembly, the rack's ambient temperature may be greater than the room's ambient temperature. Make sure the rack environment is compatible with the manufacturer's maximum rated ambient temperature (T_{ma}).
Température ambiante élevée — Si cet appareil est installé dans un cabinet fermé, la température ambiante du cabinet peut être supérieure à la température ambiante de la pièce. Assurez-vous que l'environnement dans le cabinet est compatible avec la température ambiante maximale du fabricant (T_{ma}).
- Air flow** — For rack installation, make sure that the amount of air flow required for safe operation of the equipment is not compromised. For free-standing installation, make sure that the appliance has at least 2 inches (5 cm) of clearance on each side to allow for adequate air flow and cooling.
Ventilation — Pour une installation dans un cabinet, assurez-vous que la ventilation nécessaire au fonctionnement de l'équipement n'est pas compromise. Pour une installation autonome, assurez-vous que l'appareil dispose d'au moins 2 pouces (5 cm) de dégagement de chaque côté pour permettre l'écoulement de l'air et un refroidissement adéquat.
- Circuit overloading** — To avoid overloading, use the ratings on the label. Consider the equipment's connection to the supply circuit and the effect that circuit overloading might have on current protection and supply wiring. For redundant power sources, connect each to an IEC/UL Listed power source whose output rating is greater than or equal to the equipment.
Surtension — Pour éviter de surcharger le circuit d'alimentation, référez-vous aux notes sur l'étiquette de l'équipement. Envisagez l'effet que la surtension du circuit pourrait avoir sur la protection de surtension et le câblage d'alimentation.
 Pour les sources d'alimentation redondantes, connectez chacun à une source d'alimentation Mis CEI / UL dont la cote de rendement est supérieur ou égal à l'équipement.
- Reliable earthing** — Make sure all rack-mounted equipment is grounded. This includes supply connections (e.g. power strips), not only direct connections to the branch circuit.
Mise à la terre — Assurez-vous que tout l'équipement est mis à la terre. Ceci comprend les connexions d'alimentation (par exemple, les barres d'alimentation) en plus des connexions directes au circuit de dérivation.
- Interference** — If possible, use Shielded Twisted Pair (STP) Ethernet cables instead of Unshielded Twisted Pair (UTP).
Interférence — Si possible, utilisez des câbles Ethernet de paire torsadée blindée (STP) plutôt que de paire torsadée non blindée (UTP).
- Mechanical loading** — To avoid personal injury or damage to the appliance, Fortinet recommends that 2 or more people together install the appliance into the rack. Balance the equipment to avoid uneven mechanical loading and

tipping. Do not place heavy objects on the appliance.

Installation – Pour éviter des blessures ou des dommages à l'appareil, Fortinet recommande que deux personnes ou plus installent ensemble cet équipement dans un cabinet. L'installation du matériel à l'intérieur de la baie doit être effectuée de façon à éviter toute situation dangereuse liée à une installation non conforme. Ne placez pas d'objets lourds sur l'appareil, celui-ci n'étant pas conçu pour soutenir un poids additionnel.

- Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude)

Safety

- **Moving Parts** — Hazardous moving parts. Keep away from moving fan blades.
Pièces mobiles – Pièces mobiles dangereuses. Se tenir éloigné des pales de ventilateurs mobiles.
- **Battery** — Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode. Dispose of used batteries according to your local regulations. IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to batteries.
Batterie — Risque d'explosion si vous remplacez la batterie par un modèle incompatible. Jetez les piles usagées selon les réglementations locales en vigueur. IMPORTANT: Suisse: Annexe 4.10 de SR814.013 s'appliquant aux batteries.
- **警告**
本電池如果更換不正確會有爆炸的危險
請依製造商說明書處理用過之電池
- **Power over Ethernet (PoE)** — Do not connect this device to PoE networks with routing to the outside plant. Use this equipment in a Network Environment 0 per IECTR 62101. Do not use PoE injectors that are not IEEE 802.3af compliant. They may damage your device. The unit is intended to be powered by PoE source of a LPS UL Listed or Class 2 IEC certified power adaptor.
Alimentation par Ethernet — Ce matériel doit être utilisé dans un Environnement Réseau 0 par IECTR 62101. Ce matériel est uniquement connecté aux réseaux PoE sans installation externe de routage. Cet appareil est conforme aux normes IEEE 802.3af. Ne pas utiliser d'autres injecteurs d'alimentation non conformes sous peine d'endommager votre matériel. Le produit doit être alimenté par une source PoE d'une alimentation à puissance limitée (UL Listed) ou par une alimentation Class 2 certifiée par IEC.
- **Caution:** Disconnect power supply cords before servicing.
Attention: Débranchez les cordons de la source d'alimentation avant tout entretien.

Regulatory notices

Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Warning: Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-3 (A) / NMB-3 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

Product Safety Electrical Appliance & Material (PSE) – Japan

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Voluntary Control Council for Interference (VCCI) – Japan

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Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

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The presence conditions of the restricted substance (BSMI RoHS table) are available at the link below:

<https://www.fortinet.com/bsmi>

China

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.) Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a “work that uses the Library” with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for your own use and reverse engineering for debugging such modifications. You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable “work that uses the Library”, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the “work that uses the Library” must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable. It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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FortiADC 4000D QuickStart Guide

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